



Agency for Healthcare Research and Quality
Advancing Excellence in Health Care



NATIONAL
QUALITY MEASURES
CLEARINGHOUSE

General

Title

Chronic obstructive pulmonary disease (COPD): proportion of patients readmitted for acute exacerbation of COPD within 30 days of discharge.

Source(s)

Indicators in the Danish registry for chronic obstructive pulmonary disease (DrCOPD). Aarhus (DK): Competence Centre for Clinical Quality and Health Informatics West; 2013 Jan 2. 7 p.

Measure Domain

Primary Measure Domain

Related Health Care Delivery Measures: Use of Services

Secondary Measure Domain

Clinical Quality Measure: Outcome

Brief Abstract

Description

This measure is used to assess the proportion of patients readmitted for acute exacerbation of chronic obstructive pulmonary disease (COPD) within 30 days of discharge.

Rationale

Hospitalization for chronic obstructive pulmonary disease (COPD)-exacerbation is associated with a high risk of readmission within the subsequent months. Prior Danish population-based data from 2001 and 2007 show that 14% of patients discharged alive were readmitted within a month. Readmission is a highly relevant outcome measure from the patient perspective as well as that of society as an indication of the total treatment effort during admission and the subsequent follow-up.

Evidence for Rationale

Primary Health Components

Acute exacerbation of chronic obstructive pulmonary disease (COPD); readmission

Denominator Description

Patients aged 30 years and older who were admitted for acute exacerbation of chronic obstructive pulmonary disease (COPD) with the following diagnoses according to the Danish version of the International Classification of Diseases, Tenth Revision (ICD-10):

J44.X as primary diagnosis

OR

J96.X or J13.X - J18.X as primary diagnosis in combination with J44.X as a secondary diagnosis

AND

Who are discharged alive

See the related "Denominator Inclusions/Exclusions" field.

Numerator Description

Patients readmitted for acute exacerbation of chronic obstructive pulmonary disease (COPD) within 30 days of discharge (see the related "Numerator Inclusions/Exclusions" field)

Evidence Supporting the Measure

Type of Evidence Supporting the Criterion of Quality for the Measure

A formal consensus procedure, involving experts in relevant clinical, methodological, public health and organizational sciences

Additional Information Supporting Need for the Measure

Unspecified

Extent of Measure Testing

Unspecified

State of Use of the Measure

State of Use

Current routine use

Current Use

not defined yet

Application of the Measure in its Current Use

Measurement Setting

Hospital Inpatient

Professionals Involved in Delivery of Health Services

not defined yet

Least Aggregated Level of Services Delivery Addressed

Single Health Care Delivery or Public Health Organizations

Statement of Acceptable Minimum Sample Size

Unspecified

Target Population Age

Age greater than or equal to 30 years

Target Population Gender

Either male or female

National Strategy for Quality Improvement in Health Care

National Quality Strategy Priority

Institute of Medicine (IOM) National Health Care Quality Report Categories

IOM Care Need

Not within an IOM Care Need

IOM Domain

Not within an IOM Domain

Data Collection for the Measure

Case Finding Period

Unspecified

Denominator Sampling Frame

Patients associated with provider

Denominator (Index) Event or Characteristic

Clinical Condition

Institutionalization

Patient/Individual (Consumer) Characteristic

Denominator Time Window

not defined yet

Denominator Inclusions/Exclusions

Inclusions

Patients aged 30 years and older who were admitted for acute exacerbation of chronic obstructive pulmonary disease (COPD) with the following diagnoses according to the Danish version of the International Classification of Diseases, Tenth Revision (ICD-10):

J44.X as primary diagnosis

OR

J96.X or J13.X - J18.X as primary diagnosis in combination with J44.X as a secondary diagnosis

AND

Who are discharged alive

Note: Based on information related to civil registration numbers with an "inpatient course" including an acute admission for exacerbation in COPD in the Danish National Patient Registry (DNPR). An inpatient course is linked to the registration period through the discharge date.

Exclusions

Patients who only have a surrogate/temporary personal identifier = Danish civil registration number

Patients with "inactive" status in the Danish Civil Register: status = 20, 30, 50, 60, 70, 80

Patients who are included in the study population within the last 30 days

Patients with a vital status = 90 in the DNPR no later than the day of discharge

Exclusions/Exceptions

not defined yet

Numerator Inclusions/Exclusions

Inclusions

Patients readmitted for acute exacerbation of chronic obstructive pulmonary disease (COPD) within 30 days of discharge*

*Patients with a new admission date registered between 2 and 30 after being discharged alive

Exclusions

Unspecified

Numerator Search Strategy

Institutionalization

Data Source

Administrative clinical data

Paper medical record

Registry data

Type of Health State

Adverse Health State

Instruments Used and/or Associated with the Measure

Unspecified

Computation of the Measure

Measure Specifies Disaggregation

Does not apply to this measure

Scoring

Rate/Proportion

Interpretation of Score

Does not apply to this measure (i.e., there is no pre-defined preference for the measure score)

Allowance for Patient or Population Factors

not defined yet

Standard of Comparison

not defined yet

Identifying Information

Original Title

Proportion of patients readmitted for acute exacerbation of COPD within 30 days of discharge.

Measure Collection Name

The Danish Clinical Registers

Measure Set Name

Clinical Indicators for the Danish registry for Chronic Obstructive Pulmonary Disease (DrCOPD)

Submitter

The Danish registry for Chronic Obstructive Pulmonary Disease - National Government Agency [Non-U.S.]

Developer

Competence Centre for Clinical Quality and Health Informatics West - International Agency

The Danish registry for Chronic Obstructive Pulmonary Disease - National Government Agency [Non-U.S.]

Funding Source(s)

Danish Regions

Composition of the Group that Developed the Measure

The steering committee for The Danish registry for Chronic Pulmonary Obstructive Disease (DrCOPD)

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Financial Disclosures/Other Potential Conflicts of Interest

Unspecified

Adaptation

This measure was not adapted from another source.

Date of Most Current Version in NQMC

2013 Jan

Measure Maintenance

Every year in connection with the national clinical audit, there may be isolated updates of the indicator sets (e.g., addition of new indicators or new supplementary variables). Every second or third year, there will be a more formalised review with a proper revision of the indicator set, which will also include a complete update of both documentalist report and other documents related to the indicator set.

Date of Next Anticipated Revision

2016 Sep

Measure Status

This is the current release of the measure.

The measure developer reaffirmed the currency of this measure in October 2015.

Measure Availability

Source not available electronically.

For more information, visit [The Competence Centre for Clinical Quality and Health Informatics West Web site](#) (in Danish).

Companion Documents

The following is available:

Manual for the development of disease-specific quality indicators, standards and prognostic factors under the Danish National Indicator Project. Version 3.0. Aarhus N: The Danish National Indicator Project (DNIP); 2009 Jun. 31 p.

NQMC Status

This NQMC summary was completed by ECRI Institute on August 5, 2013. The information was verified by the measure developer on October 1, 2013.

The information was reaffirmed by the measure developer on October 30, 2015.

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Production

Source(s)

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